Reducing Number of Computations in a Neural Network Modeling Several Data Sets

Abstract

An approach that enables reducing the number of computations while modeling data sets using a neural network. To model a first system characterized by a data set, a determination is made as to whether the data elements of the data set follow a similar pattern as data elements of another data set. If such an another data set exists, the weights determined with a system associated with the another data set, are used as initial weights while modeling the first system. Due to such a feature, number of computations in a neural network can be reduced while modeling several data sets.